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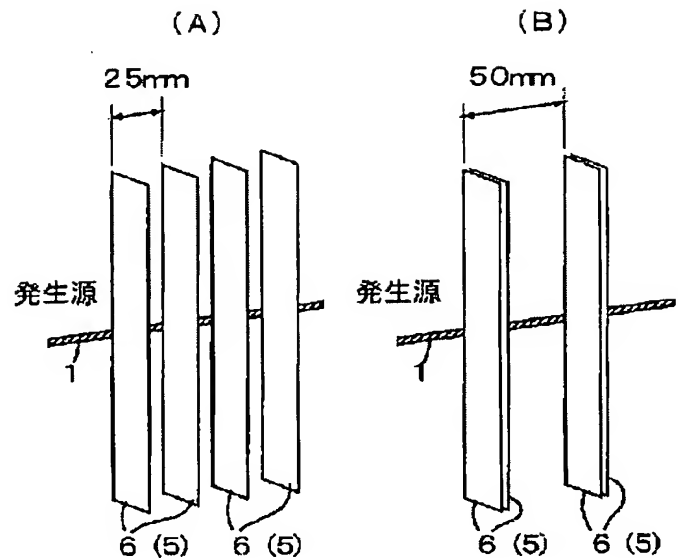
APPLICATION DATE : 27-11-00
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TITLE : METHOD AND DEVICE FOR REED
SCREEN TYPE MAGNETIC SHIELDING



ABSTRACT : PROBLEM TO BE SOLVED: To provide a method and device for magnetic shielding with air permeability and see-through characteristic.

SOLUTION: Finite-length magnetic bodies 6 are arrayed as a reed screen in a magnetic field. Here, the relationship between the cross-section area (S_a) of a gap G between adjoining magnetic bodies 6 and a product ($S_m \cdot \mu_s$) of the area (S_m) of lateral cross-section of the magnetic body 6 and a specific permeability μ_s of the magnetic body 6 is so selected that $(S_m \cdot \mu_s) / S_a > 1$, attenuating the magnetic flux density between one side of the magnetic bodies 6 arrayed as a reed screen and the other side. The finite-length magnetic body 6 is preferred to comprise a grain oriented silicon steel plate or permalloy whose longitudinal permeability is higher than that lateral cross-section direction, with the length-direction being substantially parallel to the magnetic line direction of magnetic field. Further, the finite-length magnetic body 6 is strip-shaped with a square cross-section.

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